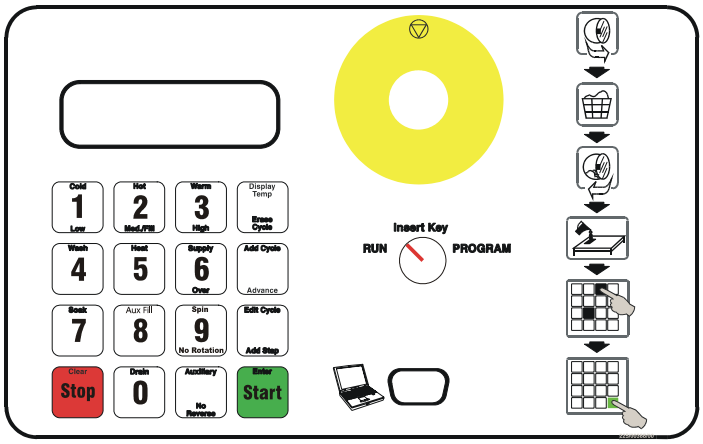
Washer-Extractors

Cabinet Freestanding
WE-8 Computer

Programming



Keep These Instructions for Future Reference.
(If this machine changes ownership, this manual must accompany machine.)

Alliance Laundry Systems

www.comlaundry.com

Part No. 9001889R3
April 2007

WARNING

Failure to install, maintain, and/or operate this machine according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

W030

NOTE: The WARNING and IMPORTANT instructions appearing in this manual are not meant to cover all possible conditions and situations that may occur. It must be understood that common sense, caution, and carefulness are factors which cannot be built into these washers. These factors MUST BE supplied by the person(s) installing, maintaining, or operating the washer.

Always contact the distributor, service agent, or the manufacturer about any problems or conditions you do not understand.

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Notes

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Notes

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Introduction

Model Identification

Information in this manual is applicable to these models:

18	HX18PVQM6 HX18PVQM7 HX18PVXM6 HX18PVXM7	SX18PVQM6 SX18PVQM7 SX18PVXM6 SX18PVXM7	UX18PVNA6 UX18PVNA7 UX18PVPA6 UX18PVPA7 UX18PVQA6 UX18PVQA7 UX18PVQM6 UX18PVQM7 UX18PVXA6 UX18PVXA7 UX18PVXM6 UX18PVXM7	HX18PVQU6 HX18PVXU6	SX18PVQU6 SX18PVXU6	UX18PVNU6 UX18PVPU6 UX18PVQU6 UX18PVXU6
25	HX25PVQM6 HX25PVQM7 HX25PVXM6 HX25PVXM7	SX25PVQM6 SX25PVQM7 SX25PVXM6 SX25PVXM7	UX25PVNA6 UX25PVNA7 UX25PVPA6 UX25PVPA7 UX25PVQA6 UX25PVQA7 UX25PVQM6 UX25PVQM7 UX25PVXA6 UX25PVXA7 UX25PVXM6 UX25PVXM7	HX25PVQU6 HX25PVXU6	SX25PVQU6 SX25PVXU6	UX25PVNU6 UX25PVPU6 UX25PVQU6 UX25PVXU6
35	HX35PVQM6 HX35PVQM7 HX35PVXM6 HX35PVXM7	SX35PVQM6 SX35PVQM7 SX35PVXM6 SX35PVXM7	UX35PVNA6 UX35PVNA7 UX35PVPA6 UX35PVPA7 UX35PVQA6 UX35PVQA7 UX35PVQM6 UX35PVQM7 UX35PVXA6 UX35PVXA7 UX35PVXM6 UX35PVXM7	HX35PVQU6 HX35PVXU6	SX35PVQU6 SX35PVXU6	UX35PVNU6 UX35PVPU6 UX35PVQU6 UX35PVXU6

continued

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continued

55				HX55PVNU6 HX55PVNU7 HX55PVQU6 HX55PVQU7 HX55PVXU6 HX55PVXU7	SX55PVNU6 SX55PVNU7 SX55PVPU6 SX55PVPU7 SX55PVQU6 SX55PVQU7 SX55PVXU6 SX55PVXU7	UX55PVNU6 UX55PVNU7 UX55PVPU6 UX55PVPU7 UX55PVQU6 UX55PVQU7 UX55PVXU6 UX55PVXU7
75				HX75PVNU6 HX75PVNU7 HX75PVQU6 HX75PVQU7	SX75PVNU6 SX75PVNU7 SX75PVQU6 SX75PVQU7	UX75PVNU6 UX75PVNU7 UX75PVPU6 UX75PVPU7 UX75PVQU6 UX75PVQU7
100				HX100PVNU6 HX100PVNU7 HX100PVQU6 HX100PVQU7	SX100PVNU6 SX100PVNU7 SX100PVQU6 SX100PVQU7	UX100PVNU6 UX100PVNU7 UX100PVPU6 UX100PVPU7 UX100PVQU6 UX100PVQU7
135				HX135PVNU6 HX135PVNU7 HX135PVQU6 HX135PVQU7	SX135PVNU6 SX135PVNU7 SX135PVQU6 SX135PVQU7	UX135PVNU6 UX135PVNU7 UX135PVPU6 UX135PVPU7 UX135PVQU6 UX135PVQU7
165				HX165PVNU6 HX165PVNU7 HX165PVQU6 HX165PVQU7	SX165PVNU6 SX165PVNU7 SX165PVQU6 SX165PVQU7	UX165PVNU6 UX165PVNU7 UX165PVPU6 UX165PVPU7 UX165PVQU6 UX165PVQU7

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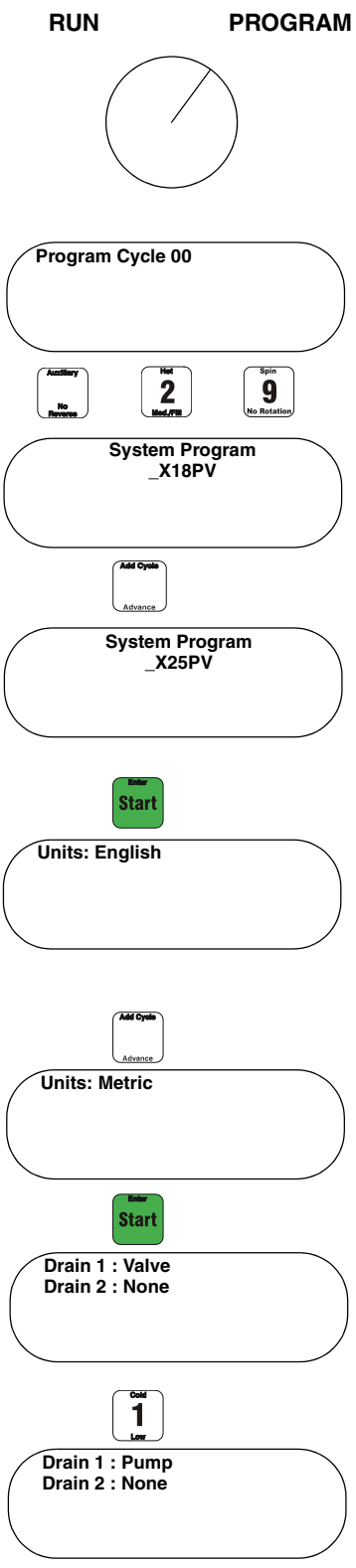
Programming

Setup of the Machine



Turn key from Run to Program

To go to the main setup of the machine, press “Auxiliary”, “2”, “9”.

To change the machine type, press the “Advance” button.
The following types are possible:

_X18PV	_X55PV	_X135PV
_X25PV	_X75PV	_X165PV

Press the “Advance” button until the right type of machine is selected. Press the “Enter” button.

Select the desired units.

NOTE: English means level in inch and temperature in °F.
Metric means level in cm and temperature in °C.

Press the “Advance” button to change the units.

Press the “Enter” button.

Select the type of drain valve.

Press “1” to change drain 1 to pump or valve.

Press “2” to change drain 2 to pump, valve or none.

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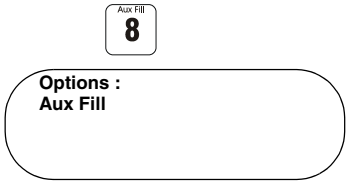
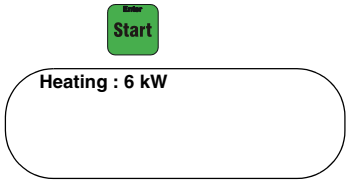
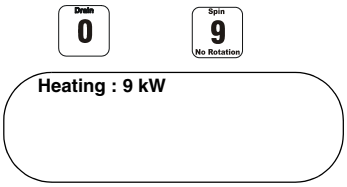
Press the “Enter” button to select options.



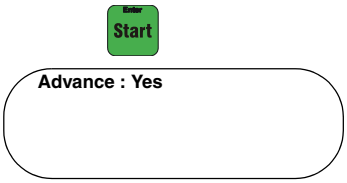
Press the “Aux Fill” button for auxiliary fill option or press “Enter” for heating.



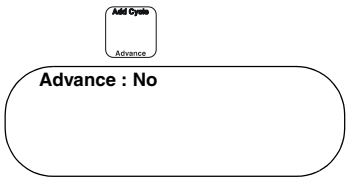
If heating is selected, the user can fill in the kW of the electrical heating (example: 9 kW).



Press “0”, “9”.



Press “Enter” to select advance mode in run mode yes or no.



Press “Advance” to change between yes and no.

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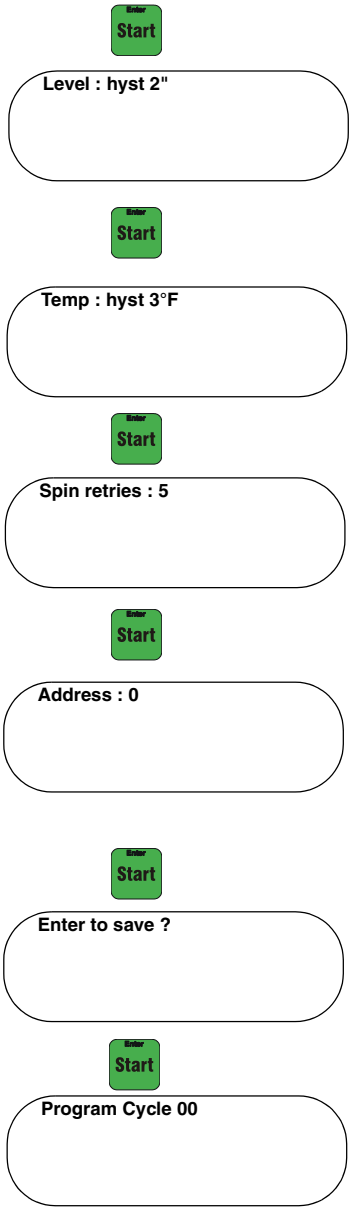

Press “Enter” to set the hysteresis level (level at which water drops before it senses it must refill).

If English is selected for units, this value will be in inches. If Metric is selected for units, this value will be in cm.

Select between 1 to 9 cm or inches.

Press “Enter” to select the temperature hysteresis (level at which temperature drops before machine senses it must reheat).

If English is selected for units, this value will be in °F. If Metric is selected for units, this value will be in °C. Select 1 to 9 °C or °F.

Press the “Enter” button to set the spin retries. Select 1 to 9 spin retries.

Press “Enter” to set the network address of the machine. If this is not used, press “Enter”.

The address of the machine has to be set if you network the machine. Each machine should have a different address.

Fill in between 00 and 99.

Press “Enter” to finish the settings.

Press “Enter” to save the settings or press “Stop” to exit without saving.

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Version of Control

To determine control version, apply power to machine. Control will display version of control (i.e., 1.15).

Language on Display (Version 1.15 and later ONLY)

To set a different language on the WE-8 display:

1. Turn key from RUN to PROGRAM
2. Press “Auxiliary”, “2” and “9” to enter set-up mode.
3. English will display. Press “Advance” until desired language displays (French, Italian, Spanish and German).
4. Press “Enter” keypad.
5. Press “Enter” to advance through set-up mode.
6. Wait until information is saved.
7. Turn key from PROGRAM to RUN.
8. Display will read language chosen for all cycles.

Setup of the Chemical Hold Feature (Version 1.11 and later ONLY)

- At power up, verify that model is at least version 1.11. Refer to version of Control Section. Earlier versions do not have this chemical hold feature.
- Insert key into key switch and turn to Program.
- Push the Auxiliary key, the 2 key, and the 9 key in succession to enter System Program Mode.
- Push the Start key 10 times to arrive at the Chemical hold choice.
- Push the Add Cycle/Advance key to toggle the Chemical hold feature either Yes (on) or No (off).
- Push the Start key twice to save changes and exit System Program Mode.
- Turn key switch to Run.

NOTE: If chemical hold is on, then a switch closure/opening between pins 1 and 4 of the COIN header on the output board will control supplies 4 through 9. A closure will turn the programmed supply/ies on and count down the time for the supply to be on. An opening will turn the programmed supply/ies off and halt the time for the supply to be on.

NOTE: If chemical hold is off, then supplies 4 through 9 are controlled exactly like supplies 1 through 3. A switch closure/opening between pins 1 and 4 of the COIN header on the output board will have no effect.

Program Storing Mode

The WE-8 control is capable of 99 total Cycles. One cycle contains 1 or more steps.

One step is a function of the wash program (example: heat).

Choose between the following functions:

Fill:	To fill the machine with water.
Wash:	Wash action of the machine.
Supply:	To add detergent to the wash (liquid or powder).
Cooldown:	Cool to programmed temperature
Heat:	To heat the water.
Soak:	The wash will be soaked for a programmed time and a programmed temperature.
Aux:	A relay contact will close for a programmed time.
Spin:	To spin the machine for a programmed time and RPM.
Drain:	To drain the water from the machine.

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Explanation of the Step Functions

Fill:

Choose between 4 water inlet configurations and 3 water levels.

Water Inlet Configurations:

Cold: Only opens the cold water valve.

Hot: Only opens the hot water valve.

Warm: Opens the cold and hot water valves.

Aux Fill: Opens an auxiliary water valve if installed.

Water Levels:

Low: Low water level.

Med: Medium water level.

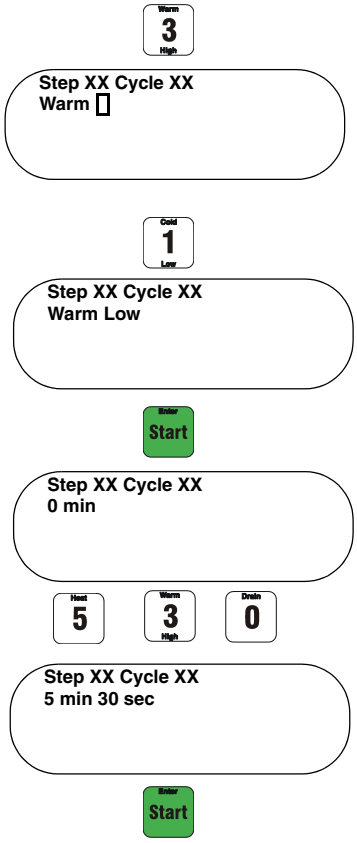
High: High water level.

The inlet configurations and the fill levels appear on the keypad, keys 1, 2, 3 and 8.

Be sure to select first the inlet configuration and then the water level.

Then you will be asked for the step time limit.

Example: Warm Low (time limit 5 minutes 30 seconds)



NOTE: If a fill error occurs, then machine has 2 minutes to finish filling. If after 2 minutes it has not finished filling, cycle is aborted.

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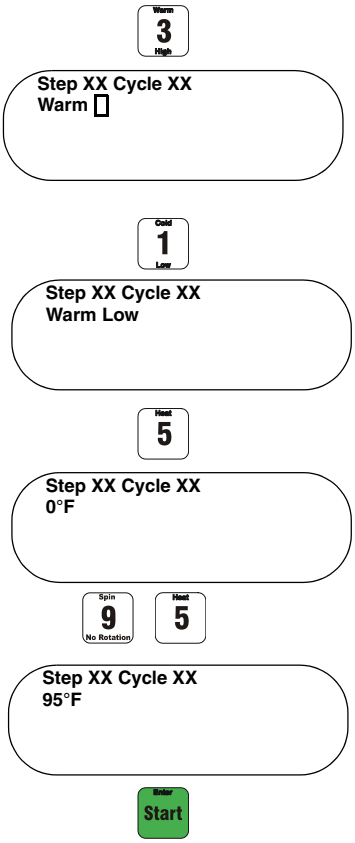
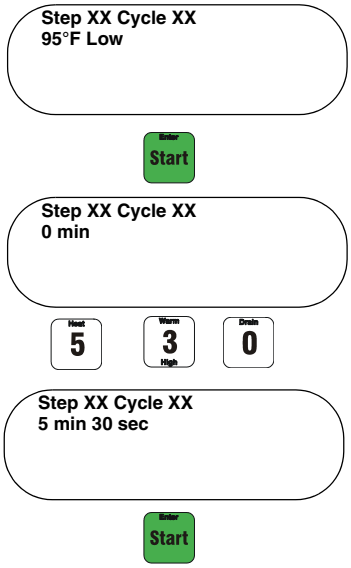
Programming

It is possible to more accurately control the temperature of water coming in to the machine during a fill step. This does not apply to “Aux Fill” step. The control will mix the hot and cold water inlet to the temperature programmed in the fill function. To fill in the temperature, select the water inlet type and the water level. Press the “Heat” button and the control will ask the temperature. In this way the water inlet type selected is of no use because the control will mix between the cold and hot water inlet to reach the temperature.

Example: Fill to low level and 95°F (step time limit: 5 minutes 30 seconds).





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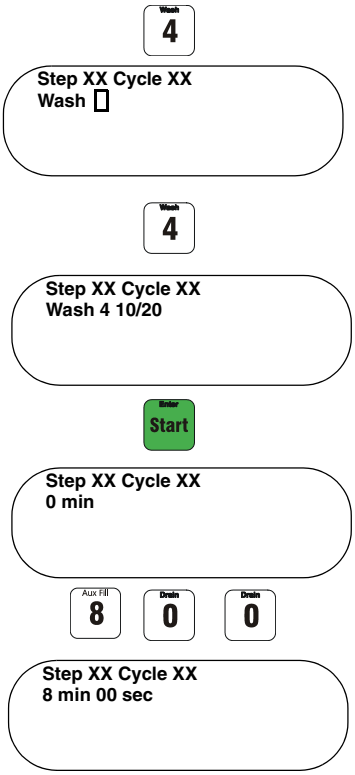
Wash:

Choose between 7 different preset wash actions.

	Action Time (sec)	Stop Time (sec)	G-force
Wash 1	18	3	0.5
Wash 2	3	27	0.5
Wash 3	0	0	0
Wash 4	10	20	0.5
Wash 5*	18	3	0.5
Wash 6	4	56	0.5
Wash 7	0	0	0

The “Wash” button is button 4 on the display.

Example: Wash 4 for 8 minutes 00 seconds.



* Refer to section on Wash 5 Thermal Cool-Down.

Supply:

Choose between 9 different supplies.

Supply 1: Turns on the water valve in compartment A of the supply box.

Supply 2: Turns on the water valve in compartment B of the supply box.

Supply 3: Turns on the water valve in compartment C of the supply box.

Supply 4: Activates supply pump 1.

Supply 5: Activates supply pump 2.

Supply 6: Activates supply pump 3.

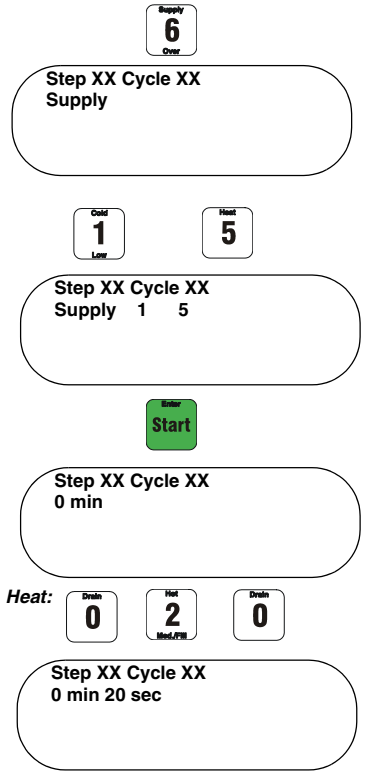
Supply 7: Activates supply pump 4.

Supply 8: Activates supply pump 5.

Supply 9: Activates supply pump 6.

The Supply button is button 6.

Example: Supply 1 and 5 for 20 seconds.



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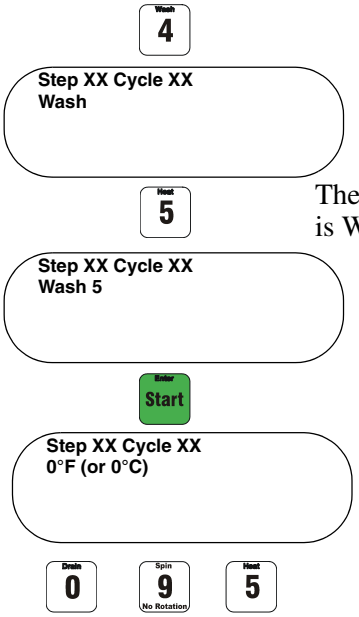
Chemical Hold Feature

Chemical supply injection can be paused. Refer to Setup of Chemical Hold Feature.

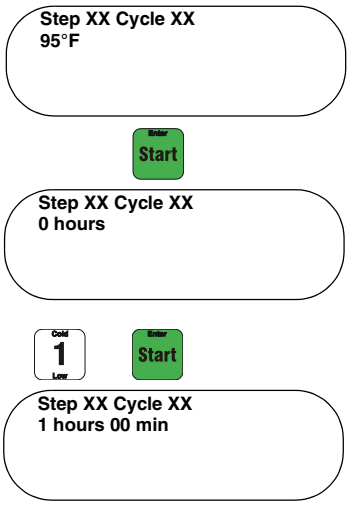
Wash 5 Thermal Cool-Down

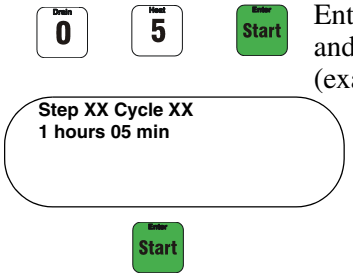
Immediately after a heat step, a temperature-controlled thermal cool-down may be programmed to prevent fiber shock from sudden cool-down.



Thermal Cool-Down is Wash 5.

Enter desired temperature for load to cool down to. Three digits must be used for temperature. If Fahrenheit, the valid temperature range is 80° – 200°F. If Celcius, valid temperature range is 25° – 90°C (example: 95°F).

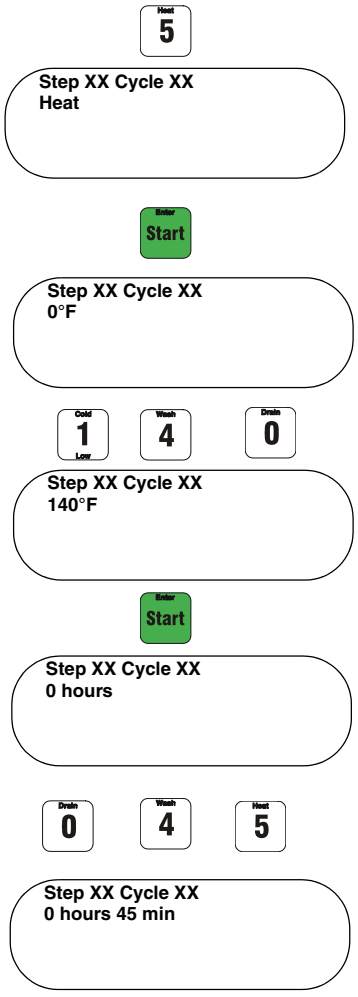




Enter time in minutes and press “Enter” (example: 5 min).

The “Heat” button is number 5.

Example: Heat up to 140°F with the time limit of 45 minutes.



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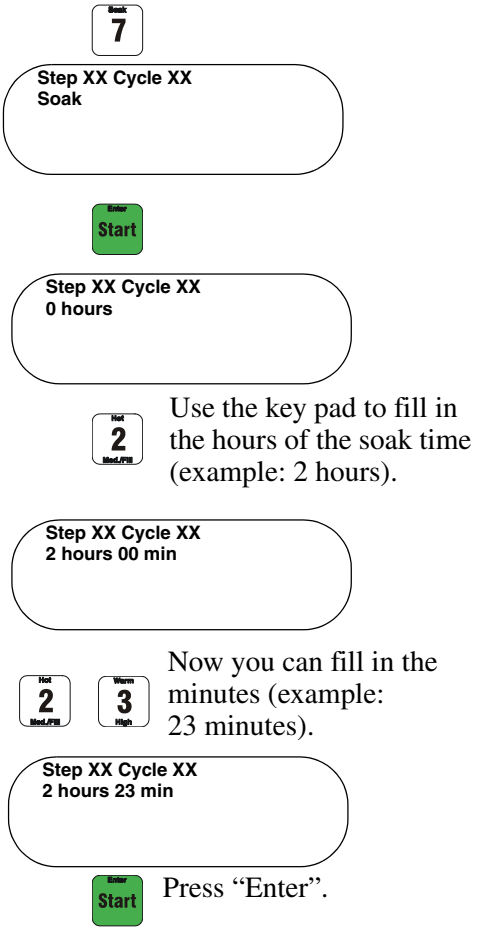
Soak:

Button 7 is the “Soak” button.

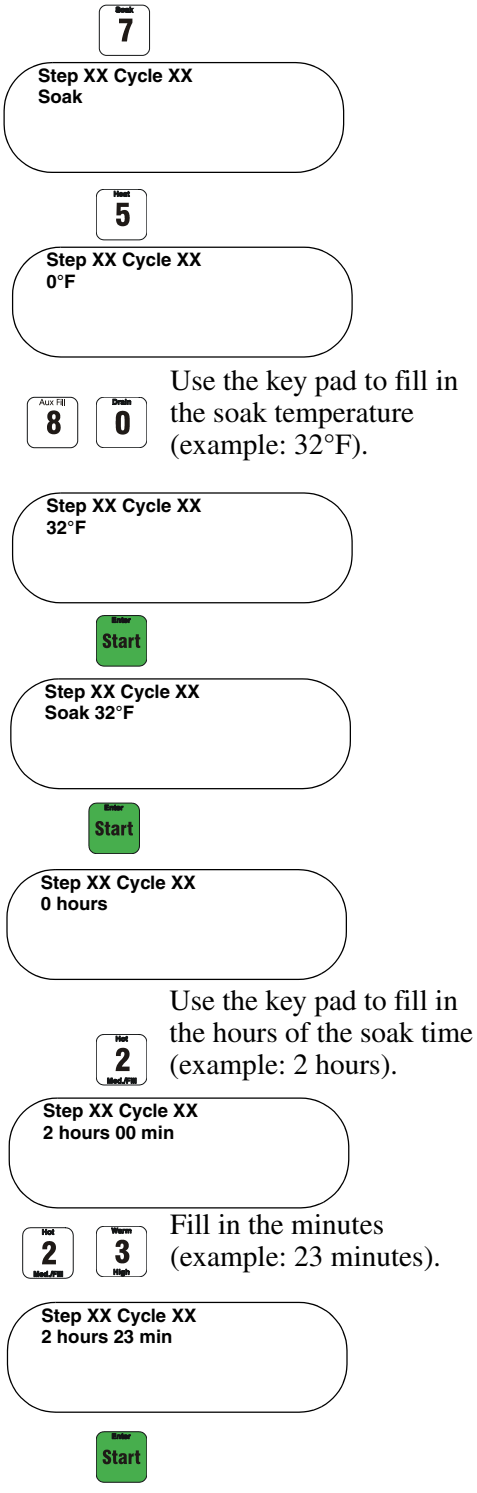
By pressing button 7, “Soak” will appear on the display. Press “Enter” to fill in the soak time.

Example: Soak for 2 hours.



The temperature of the soak will be the temperature programmed in the previous step. You can also change the temperature by pressing first “Soak” and then “Heat”.

Example: Soak time of 2 hours with 32°F.



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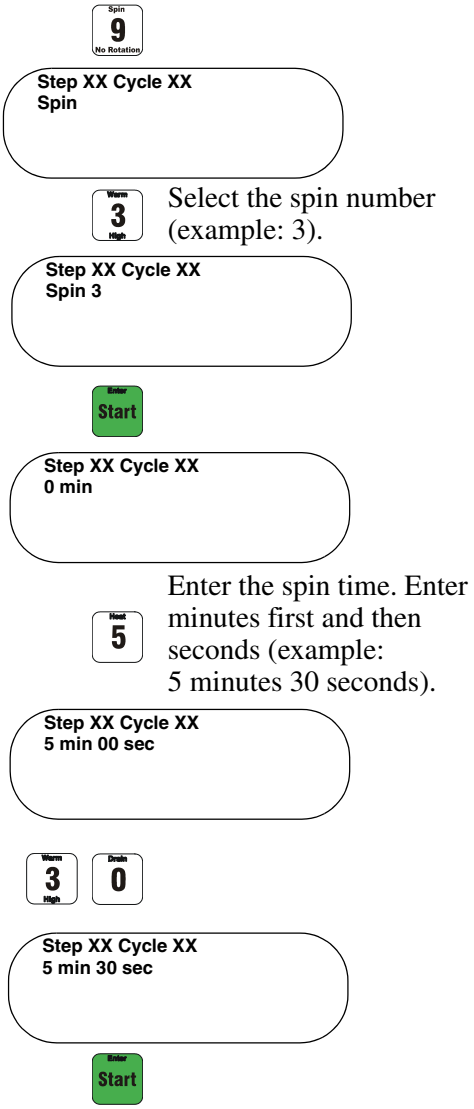
Spin:

Choose between 4 preset spin speeds.

	18-75 Models	100/135 Models	165 Models
Spin 1 RPM	500	500	500
Spin 2 RPM	650	650	650
Spin 3 RPM	800	800	750
Spin 4 RPM	1000	80	750

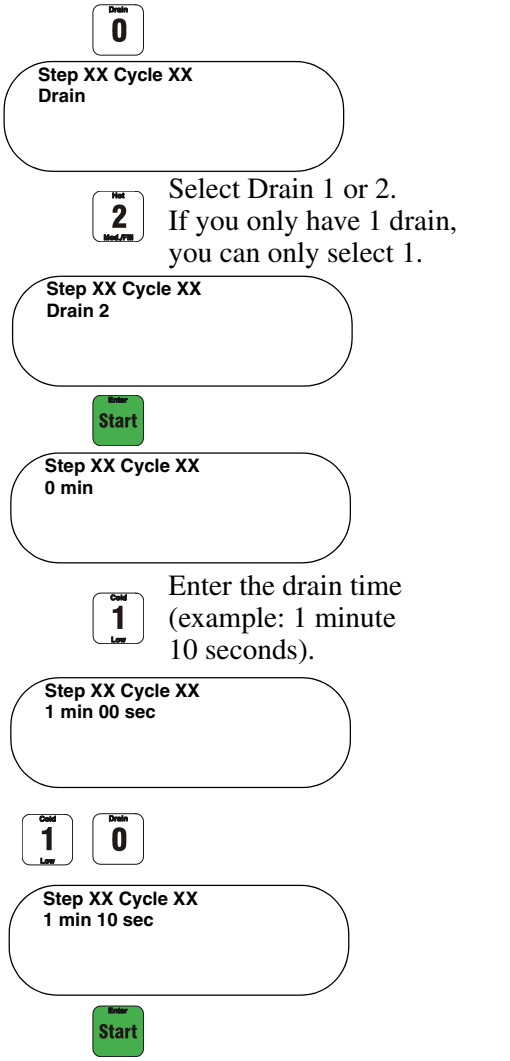
"Spin" is button 9.



Drain:

This function drains the water.

If you have 2 drains, select which drain has to be opened.



NOTE: With the WE-8 control, it is NOT necessary to program a drain step before spin. The spin step incorporates the balancing routine and draining before beginning high speed spin (as a sub part of the spin step). A programmed drain step will be skipped if spin step is programmed immediately after it.

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Example Making a New Program

Program 51

Step 1: Fill warm water to low level
(5 minutes 30 seconds time limit)

Step 2: Supply 1 and 5 for 20 seconds

Step 3: Heat up to 140°F (45 minutes time limit)

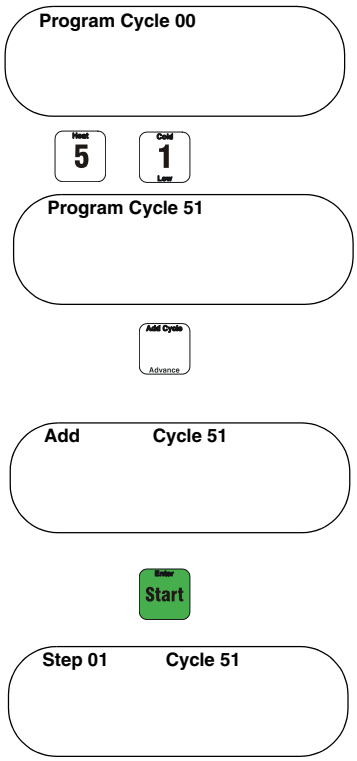
Step 4: Wash action 4 for 8 minutes 00 seconds

Step 5: Drain 1 for 1 minutes 25 seconds

Step 6: Spin 3 for 8 minutes 30 seconds

To program or edit cycles turn the key into the Program Mode.

“Program Cycle xx” will be shown on the display.



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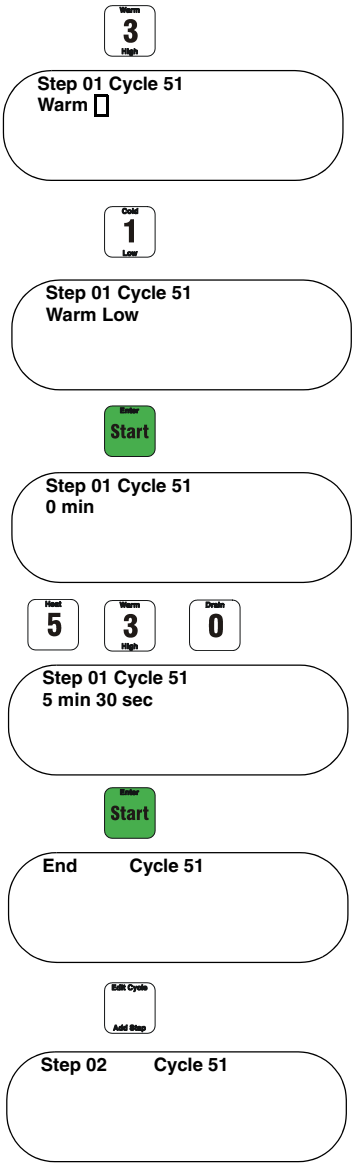

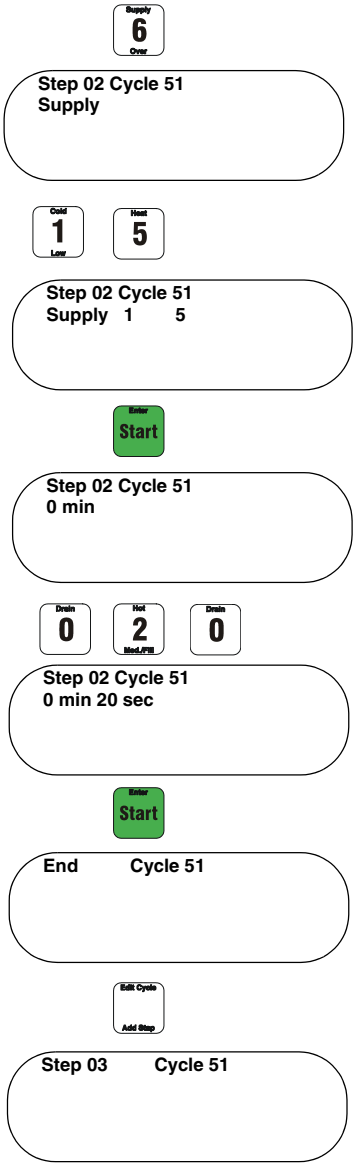

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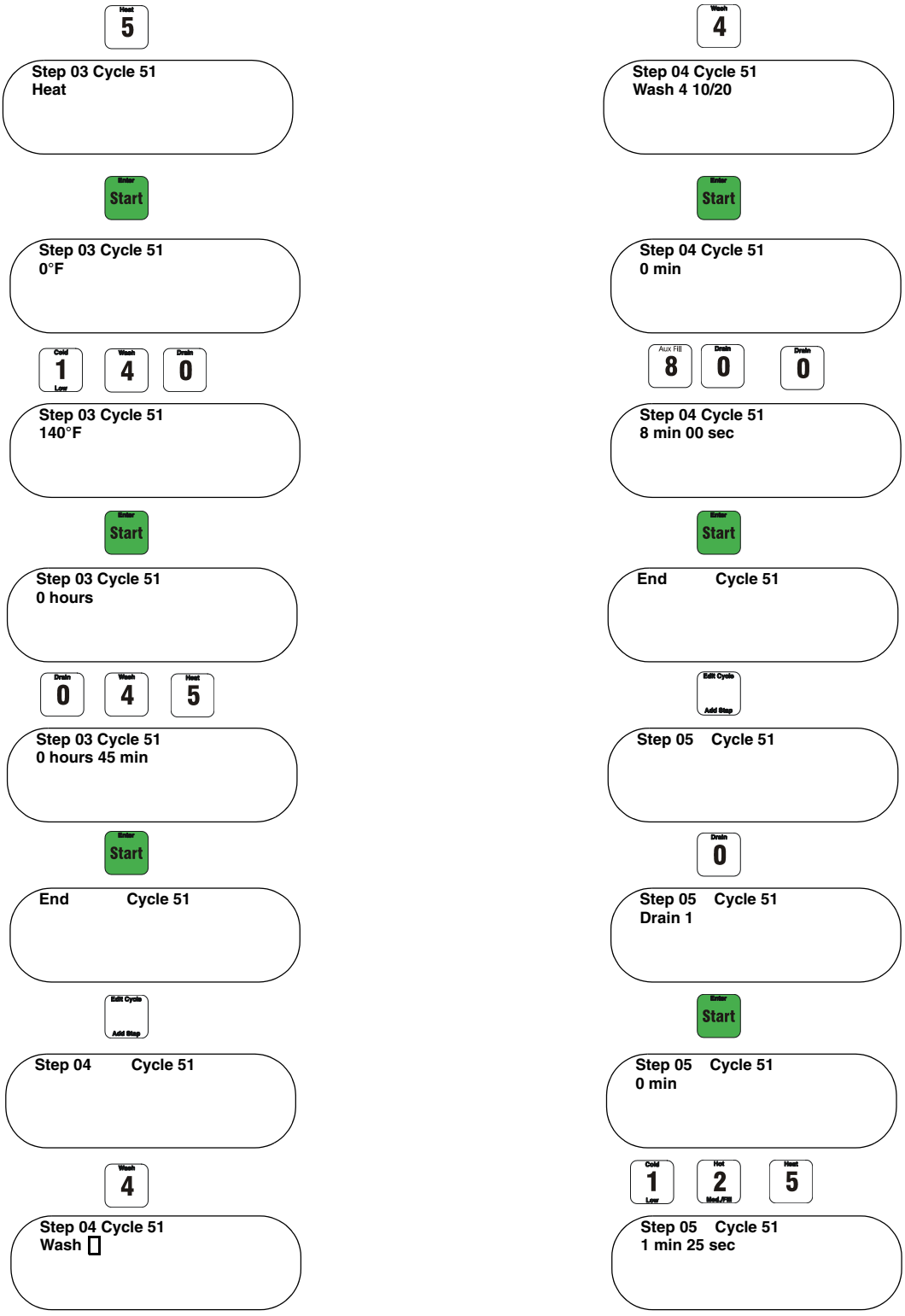

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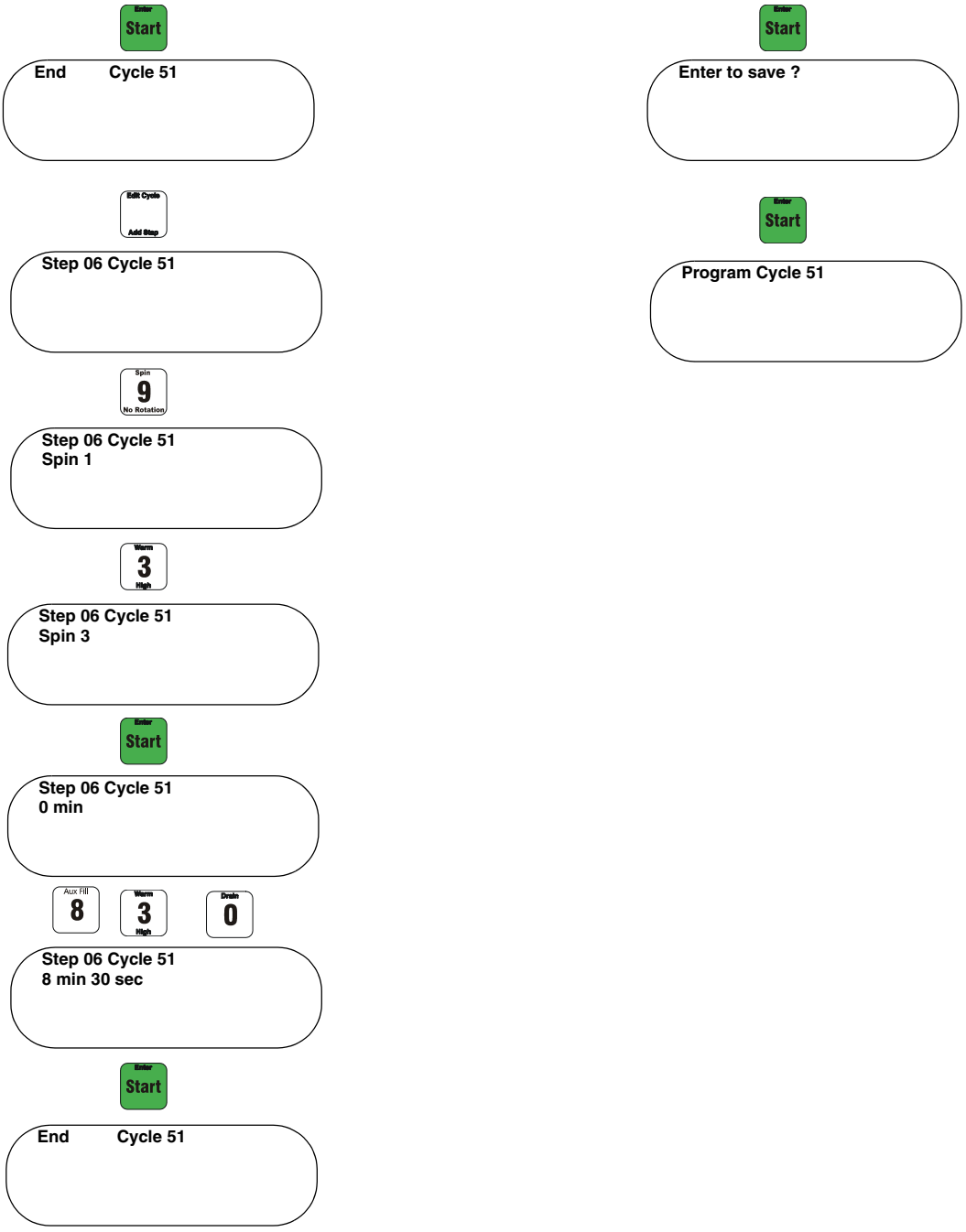

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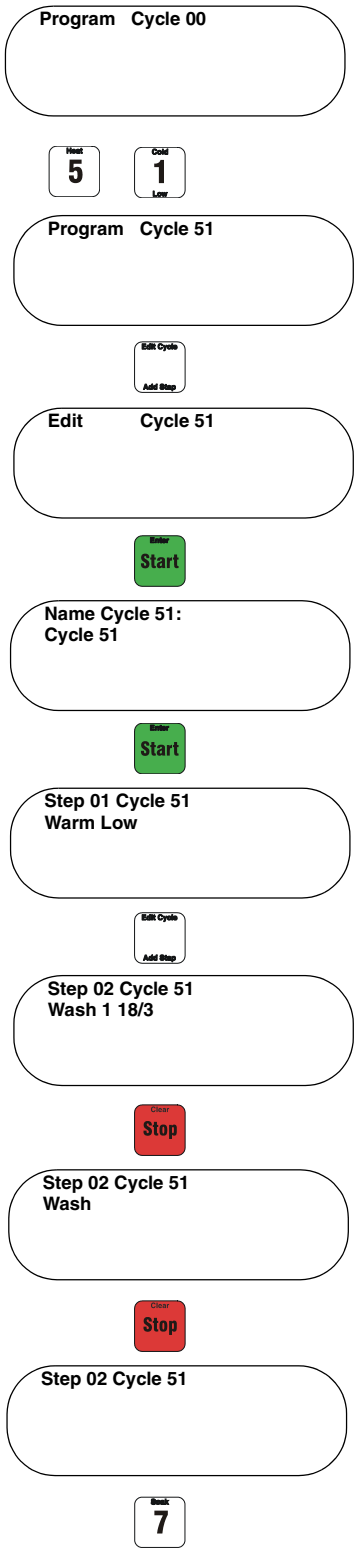
Edit a Cycle

Change a Complete Step



To edit a cycle enter the cycle number (example: cycle 51).

Press the “Edit Cycle” button.

Press the “Enter” button to edit the cycle.

Press “Enter” to continue.

The first step of cycle 51 will display.

Select the step being edited by using the “Advance” button to go to the next step or the “Previous” button to go to the previous step.

If you would like to change the step, press the “Clear” button.

Select another wash action or press the “Clear” button to change the function.

Fill in the function desired (example: soak for 1 hour 30 minutes).

Press the “Soak” button.

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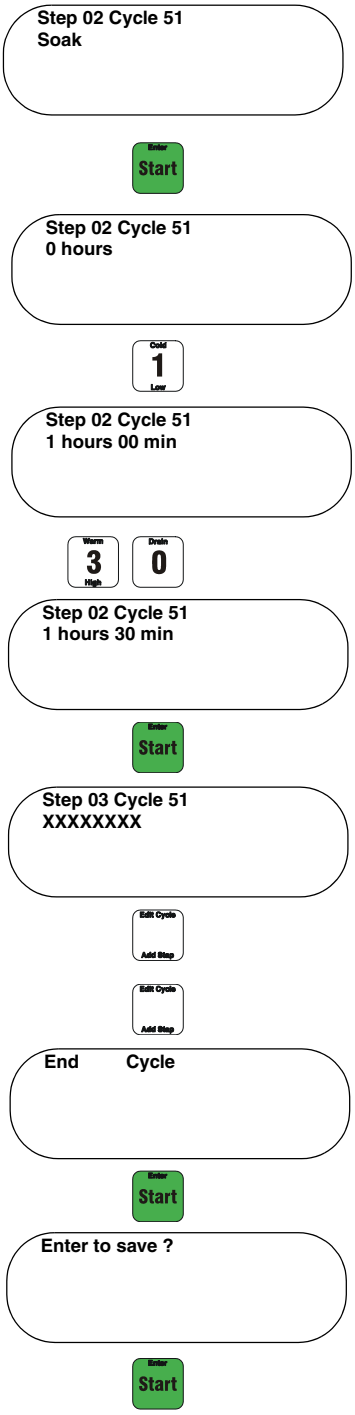

The control is then in the next step of cycle 51. Press "Advance" until the display shows "end cycle 55".

Press "Enter" to confirm.

Press "Enter" to save or "Stop" to ignore the changes.

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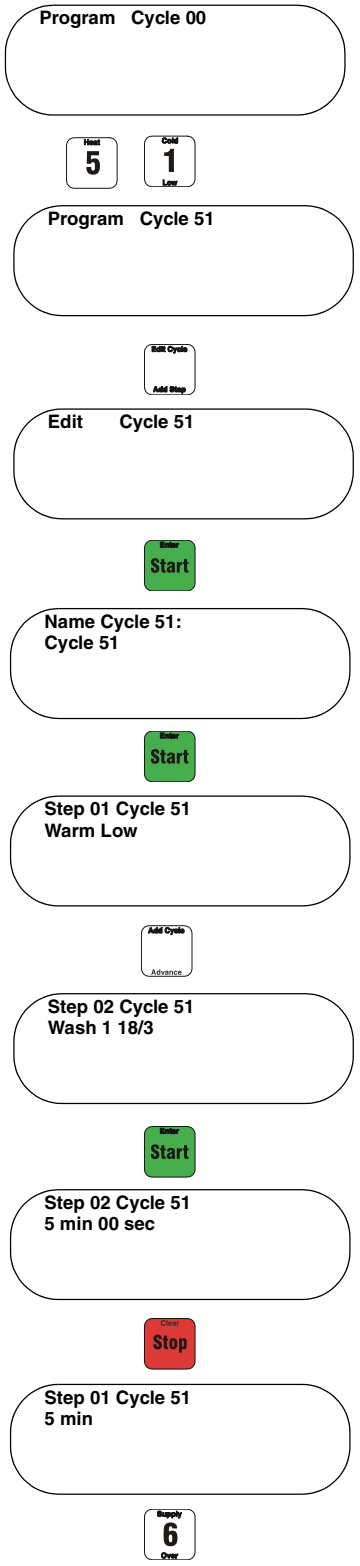
Changing the Time of a Step



To edit a cycle, enter the cycle number (example: cycle 51).

Press the “Edit Cycle” button.

Press the “Enter” button to edit the cycle.

Press “Enter” to continue.

The first step of cycle 51 will display.

Select the step being edited by using the “Advance” button to go to the next step or the “Previous” button to go to the previous step.

Press “Enter” to change the time of the wash action.

Press “Clear” to change the time.

Fill in another time (example: 6 minutes 20 seconds).

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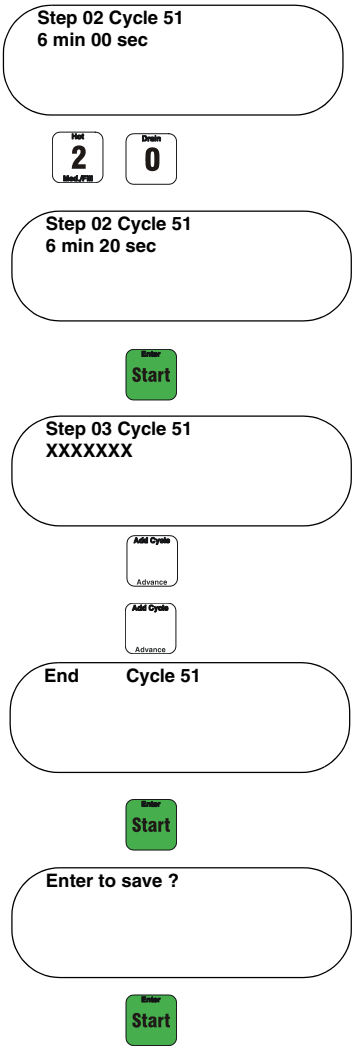

Press “Enter” to go to the next step.

Press the “Advance” button until display shows “End Cycle 51”.

Press “Enter” to confirm.

Press “Enter” to save or “Stop” to ignore the changes.

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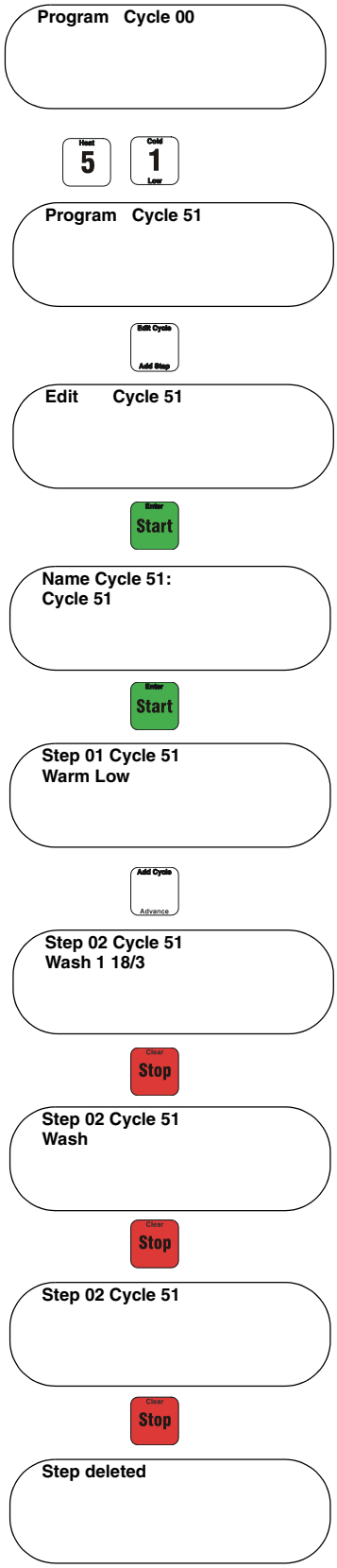
Delete a Step



To edit a cycle, enter the cycle number (example: cycle 51).

Press the “Edit Cycle” button.

Press the “Enter” button to edit the cycle.

Press “Enter” to continue.

The first step of cycle 51 will display.

Select the step being edited by using the “Advance” button to go to the next step or the “Previous” button to go to the previous step.

Press the “Clear” button to change the step.

Press the “Clear” button again.

Press the “Clear” button once more.

The step is deleted. Press the “Advance” button to end cycle 51 and press “Enter” 2 times to save the settings.

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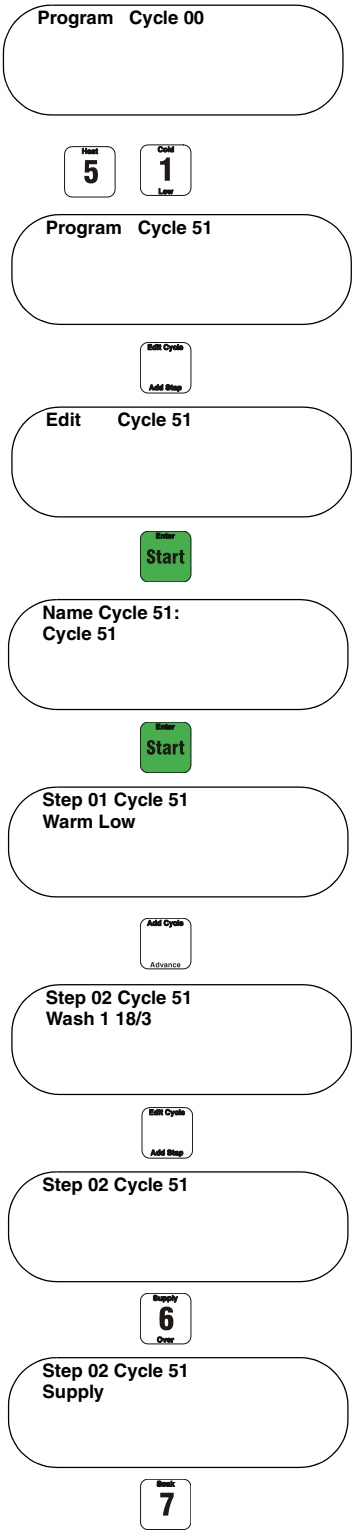
Insert a Step



To edit a cycle, enter the cycle number (example: cycle 51).

Press the “Edit Cycle” button.

Press the “Enter” button to edit the cycle.

Press “Enter” to continue.

The first step of cycle 51 will display.

Select the position where you would like to add a step by using the “Advance” button to go to the next step or the “Previous” button to go to the previous step.

Push the “Add Step” button to add a step.

The control will insert a step before the step selected.

Select the function (example: supply).

Press the supply number (example: supply 7).

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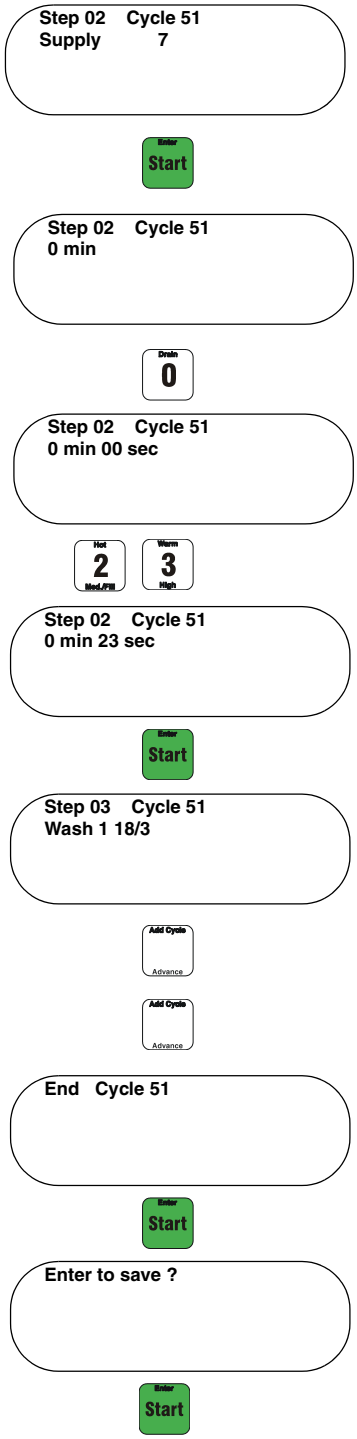

Press “Enter” to confirm.

Enter the time to activate the supply (example: 0 minutes 23 seconds).

Press “Enter” to confirm.

Press the “Advance” button until “End Cycle 51” is displayed.

Press “Enter” to confirm.

Press “Enter” to save or “Stop” to ignore the changes.

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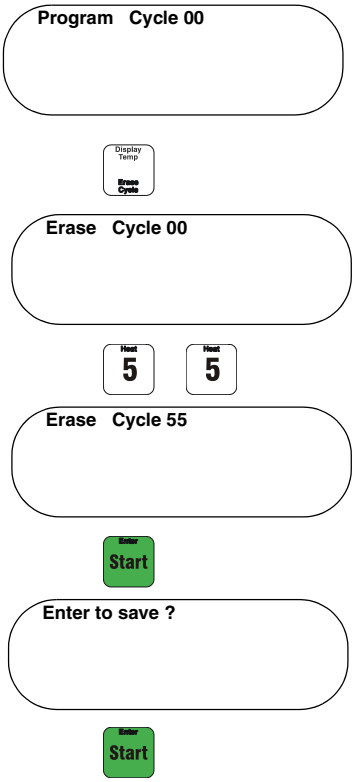
Delete a Cycle



Press the “Erase Cycle” button.

Press the number of the cycle being erased (example: 55).

Press “Enter” to confirm.

Press “Enter” to save or “Stop” to ignore the changes.

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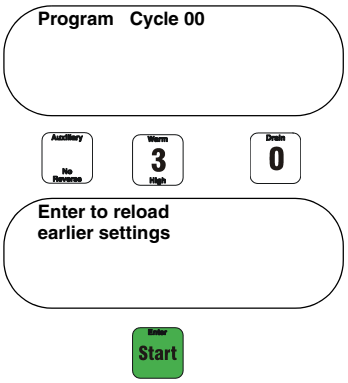
Reloading Previous Settings

This special function allows previous settings to be restored.



Press “Auxiliary”, “3”, “0”.

The control will ask if earlier settings are desired.

Press “Enter” to confirm the settings.

NOTE: This function only goes back to the last programming function entered.

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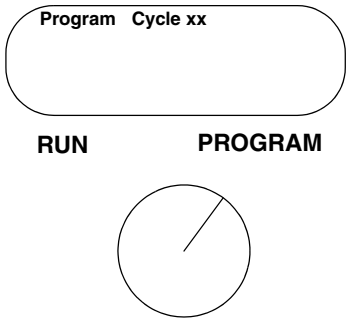
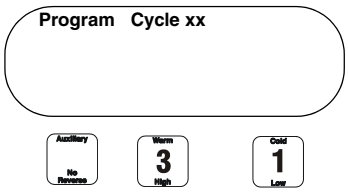
Cycle Count

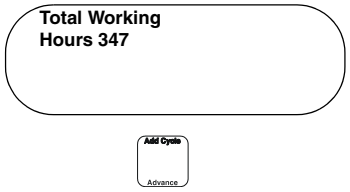
Reading Cycle Count



1. Enter Program Mode by turning key to PROGRAM position (xx represents a cycle number from 00 to 99).

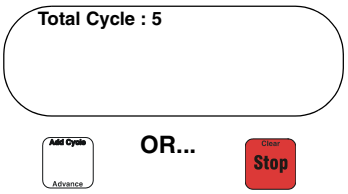


2. Press “Auxiliary” key, then “3” key, then “1” key.



3. The total hours of cycle operation (actual run time) will display. Press “Advance” key to continue.

   Example display shows 347 total hours (of all cycles).



4. Display now shows total cycle count. Press “Advance” key to continue into calibration mode, or press “Clear/Stop” key to exit.

   Example display shows 5 total cycles have been run.

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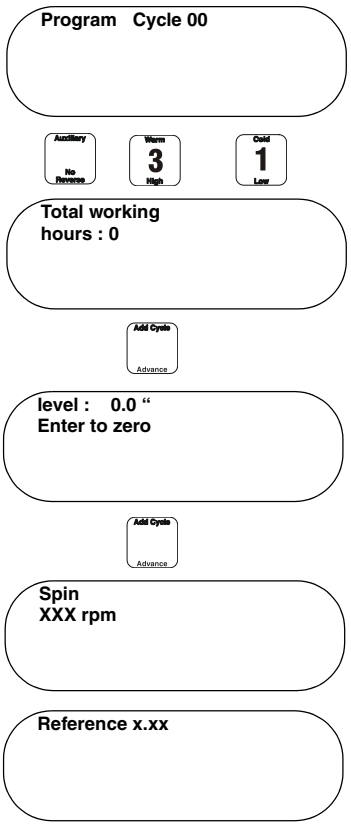
Calibration of the Machine

The _x__PV should reflect the size selected in earlier steps.

Turn key to Program Mode.



Press “Auxiliary”, “3”, “1”.

The total hours the machine was running will be displayed.

Press “Advance” and screen will show total cycles.

Press “Advance” to calibrate the water level sensor.

If the value is not zero, press “Enter” and the value will change to zero.

Press “Advance” to calibrate the motor.

The board will lock the door and let the motor spin at approximately 500 rpm (Firmware version 1.12 or higher). The rpm will increase on the display. If the machine reached approximately 500 rpm, the display will show a reference value.

After the reference value is shown, the machine will coast down to stop. When the machine stands still, the board will unlock the door.

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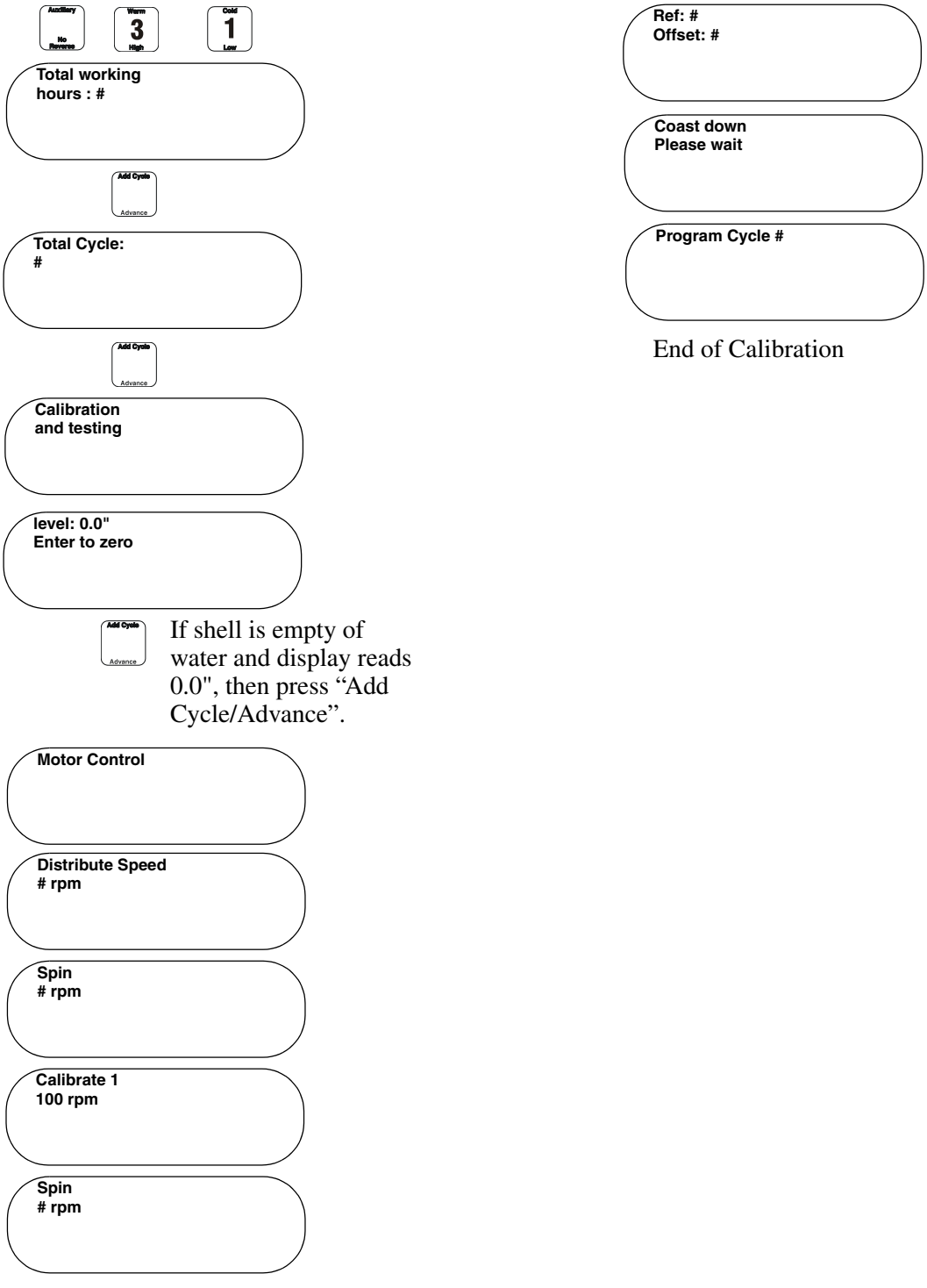
Speed Calibration

This function automatically calibrates water level, distribution speed and spin speed.



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Pre-Programmed Cycles

Cycle 01 Sheets Light Soil		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 2, 4, 5	0:45
3	Wash 1 18/3 (32°F)	7:00
4	Drain 1	1:00
5	Hot Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Spin 1	1:00
9	100°F Fill to Low Level	5:00
10	Supply 3, 6, 7	0:30
11	Wash 1 18/3 (32°F)	4:00
12	Drain 1	1:00
13	Spin 1	3:00

Cycle 02 Sheets No Bleach		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	7:00
4	Drain 1	1:00
5	Hot Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Spin 1	1:00
9	100°F Fill to Low Level	5:00
10	Supply 3, 6, 7	0:30
11	Wash 1 18/3 (32°F)	4:00
12	Drain 1	1:00
13	Spin 1	3:00

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Cycle 03 Towels Light Soil		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 2, 4, 5	0:45
3	Wash 1 18/3 (32°F)	7:00
4	Drain 1	1:00
5	Hot Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Spin 1	1:00
9	110°F Fill to Low Level	5:00
10	Supply 3, 6, 7	0:30
11	Wash 1 18/3 (32°F)	5:00
12	Drain 1	1:00
13	Spin 4	6:00

Cycle 04 Towels No Bleach		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	7:00
4	Drain 1	1:00
5	Hot Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Spin 1	1:00
9	110°F Fill to Low Level	5:00
10	Supply 3, 6, 7	0:30
11	Wash 1 18/3 (32°F)	4:00
12	Drain 1	1:00
13	Spin 4	6:00

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Cycle 05 Sheets Medium Soil		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	6:00
4	Drain 1	1:00
5	Hot Fill to Low Level	5:00
6	Supply 2, 5	0:45
7	Wash 1 18/3 (32°F)	6:00
8	Drain 1	1:00
9	Hot Fill to High Level	5:00
10	Wash 1 18/3 (32°F)	2:00
11	Drain 1	1:00
12	Spin 1	1:00
13	100°F Fill to Low Level	5:00
14	Supply 3, 6, 7	0:30
15	Wash 1 18/3 (32°F)	4:00
16	Drain 1	1:00
17	Spin 1	3:00

Cycle 06 Towels Medium Soil		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	6:00
4	Drain 1	1:00
5	Hot Fill to Low Level	5:00
6	Supply 2, 5	0:45
7	Wash 1 18/3 (32°F)	6:00
8	Drain 1	1:00
9	Hot Fill to High Level	5:00
10	Wash 1 18/3 (32°F)	2:00
11	Drain 1	1:00
12	Spin 1	1:00
13	110°F Fill to Low Level	5:00
14	Supply 3, 6, 7	0:30
15	Wash 1 18/3 (32°F)	4:00
16	Drain 1	1:00
17	Spin 4	6:00

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Cycle 07 Blankets Warm		
Step	**Description**	**Min:sec**
1	Warm Fill to High Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	6:00
4	Drain 1	1:00
5	Warm Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	5:00
7	Drain 1	1:00
8	Spin 1	1:00
9	Warm Fill to Low Level	5:00
10	Supply 3, 6, 7	0:30
11	Wash 2 3/27 (32°F)	4:00
12	Drain 1	1:00
13	Spin 4	4:00

Cycle 08 Spreads Cold		
Step	**Description**	**Min:sec**
1	Cold Fill to High Level	5:00
2	Supply 1, 4	0:45
3	Wash 2 3/27 (32°F)	6:00
4	Drain 1	1:00
5	Cold Fill to High Level	5:00
6	Wash 2 3/27 (32°F)	1:30
7	Drain 1	1:00
8	Spin 1	1:00
9	Cold Fill to High Level	5:00
10	Supply 3, 6, 7	0:30
11	Wash 2 3/27 (32°F)	4:00
12	Drain 1	1:00
13	Spin 4	4:00

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Cycle 09 Towels Heavy Soil		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	7:00
4	Hot Fill to High Level	5:00
5	Supply 2, 5	1:00
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Spin 1	1:00
9	Warm Fill to High Level	5:00
10	Wash 1 18/3 (32°F)	2:00
11	Drain 1	1:00
12	Spin 1	1:00
13	Warm Fill to Low Level	5:00
14	Supply 3, 6, 7	1:00
15	Wash 1 18/3 (32°F)	4:00
16	Drain 1	1:00
17	Spin 4	6:00

Cycle 10 Rinse and Spin		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Wash 1 18/3 (32°F)	1:00
3	Drain 1	1:00
4	Spin 1	1:00
5	Spin 4	4:00

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Cycle 11 Health Care Sheets Light Soil		
Step	**Description**	**Min:sec**
1	Warm Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1, 2, 4, 5	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 2	0:45
6	Wash 1 18/3 (32°F)	8:00
7	Drain 1	1:00
8	Hot Fill to High Level	5:00
9	Wash 1 18/3 (32°F)	3:00
10	Drain 1	1:00
11	Spin 1	1:00
12	100°F Fill to Low Level	5:00
13	Supply 3, 6, 7	0:30
14	Wash 1 18/3 (32°F)	4:00
15	Drain 1	1:00
16	Spin 1	4:00

Cycle 12 Health Care Towels Light Soil		
Step	**Description**	**Min:sec**
1	Warm Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 2, 4, 5	0:45
6	Wash 1 18/3 (32°F)	8:00
7	Drain 1	1:00
8	Hot Fill to High Level	5:00
9	Wash 1 18/3 (32°F)	3:00
10	Drain 1	1:00
11	Spin 1	1:00
12	110°F Fill to Low Level	5:00
13	Supply 3, 6, 7	0:30
14	Wash 1 18/3 (32°F)	4:00
15	Drain 1	1:00
16	Spin 4	4:00

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Cycle 13 Health Care Sheets Heavy Soil		
Step	**Description**	**Min:sec**
1	32°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	120°F Fill to High Level	5:00
5	Wash 1 18/3 (32°F)	2:00
6	Drain 1, 4	1:00
7	Hot Fill to Low Level	5:00
8	Supply 1	0:45
9	Wash 1 18/3 (32°F)	7:00
10	Drain 1	1:00
11	Hot Fill to Low Level	5:00
12	Supply 2, 5	0:45
13	Wash 1 18/3 (32°F)	7:00
14	Drain 1	1:00
15	Hot Fill to High Level	5:00
16	Wash 1 18/3 (32°F)	3:00
17	Drain 1	1:00
18	Spin 1	1:00
19	100°F Fill to Low Level	5:00
20	Supply 3, 6, 7	0:30
21	Wash 1 18/3 (32°F)	4:00
22	Drain 1	1:00
23	Spin 1	3:00

Cycle 14 Health Care Towels Heavy Soil		
Step	**Description**	**Min:sec**
1	32°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	120°F Fill to High Level	5:00
5	Wash 1 18/3 (32°F)	2:00
6	Drain 1	1:00
7	Hot Fill to Low Level	5:00
8	Supply 1, 4	0:45
9	Wash 1 18/3 (32°F)	7:00
10	Drain 1	1:00
11	Hot Fill to Low Level	5:00
12	Supply 2, 5	0:45
13	Wash 1 18/3 (32°F)	7:00
14	Drain 1	1:00
15	Hot Fill to High Level	5:00
16	Wash 1 18/3 (32°F)	3:00
17	Drain 1	1:00
18	Spin 1	1:00
19	110°F Fill to Low Level	5:00
20	Supply 3, 6, 7	0:30
21	Wash 1 18/3 (32°F)	4:00
22	Drain 1	1:00
23	Spin 4	6:00

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Cycle 15 Health Care Cotton Blankets		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 2, 4, 5	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to High Level	5:00
9	Wash 1 18/3 (32°F)	3:00
10	Drain 1	1:00
11	Spin 1	1:00
12	110°F Fill to Low Level	5:00
13	Supply 3, 6, 7	0:30
14	Wash 1 18/3 (32°F)	4:00
15	Drain 1	1:00
16	Spin 4	6:00

Cycle 16 Health Care Diapers Heavy Soil		
Step	**Description**	**Min:sec**
1	32°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to High Level	5:00
5	Wash 1 18/3 (32°F)	2:00
6	Drain 1	1:00
7	Hot Fill to Low Level	5:00
8	Supply 1, 4	0:45
9	Wash 1 18/3 (32°F)	7:00
10	Drain 1	1:00
11	Hot Fill to Low Level	5:00
12	Supply 1, 4	0:30
13	Wash 1 18/3 (32°F)	7:00
14	Drain 1	1:00
15	Hot Fill to Low Level	5:00
16	Supply 2, 5	0:30
17	Wash 1 18/3 (32°F)	7:00
18	Drain 1	1:00
19	Hot Fill to High Level	5:00
20	Wash 1 18/3 (32°F)	4:00
21	Drain 1	1:00
22	Spin 1	2:00
23	110°F Fill to High Level	5:00
24	Wash 1 18/3 (32°F)	2:00
25	Drain 1	1:00
26	110°F Fill to Low Level	5:00
27	Supply 3, 6, 7	0:30
28	Wash 1 18/3 (32°F)	4:00
29	Drain 1	1:00
30	Spin 1	1:00
31	Spin 4	6:00

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Cycle 17 Health Care Personal Bleach		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 2, 4, 5	0:45
3	Wash 1 18/3 (32°F)	6:00
4	Drain 1	1:00
5	Hot Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Spin 1	1:00
9	110°F Fill to Low Level	5:00
10	Supply 3, 6, 7	0:30
11	Wash 1 18/3 (32°F)	4:00
12	Drain 1	1:00
13	Spin 1	3:00

Cycle 18 Health Care Personal No Bleach		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	6:00
4	Drain 1	1:00
5	110°F Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Spin 1	1:00
9	110°F Fill to Low Level	5:00
10	Supply 3, 6, 7	0:30
11	Wash 1 18/3 (32°F)	4:00
12	Drain 1	1:00
13	Spin 1	3:00

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Cycle 19 Health Care Pads Polyester		
Step	**Description**	**Min:sec**
1	110°F Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	3:00
4	130°F Fill to High Level	5:00
5	Wash 1 18/3 (32°F)	2:00
6	Drain 1	1:00
7	Hot Fill to Low Level	5:00
8	Supply 1, 4	0:45
9	Wash 1 18/3 (32°F)	7:00
10	Drain 1	1:00
11	Hot Fill to Low Level	5:00
12	Supply 2, 5	0:45
13	Wash 1 18/3 (32°F)	7:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	Spin 1	1:00
20	110°F Fill to Low Level	5:00
21	Supply 3, 6, 7	0:30
22	Wash 1 18/3 (32°F)	3:00
23	Drain 1	1:00
24	Spin 4	4:00

Cycle 20 Table Linen Iron		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 2, 5	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	3:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to Low Level	5:00
17	Supply 3, 6	0:30
18	Wash 1 18/3 (32°F)	2:00
19	Supply 6, 8	0:30
20	Wash 1 18/3 (32°F)	5:00
21	Drain 1	1:00
22	Spin 2	4:00

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Cycle 21 Table Linen No Iron		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 2, 5	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	3:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to Low Level	5:00
17	Supply 3, 6, 7	0:30
18	Wash 1 18/3 (32°F)	4:00
19	Drain 1	1:00
20	Spin 1	3:00

Cycle 22 Table Color Iron		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 1, 4	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	3:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to Low Level	5:00
17	Supply 3, 6	0:30
18	Wash 1 18/3 (32°F)	4:00
19	Supply 8	0:30
20	Wash 1 18/3 (32°F)	5:00
21	Drain 1	1:00
22	Spin 2	4:00

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Cycle 23 Table Color No Iron		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 1, 4	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	3:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to Low Level	5:00
17	Supply 3, 6, 7	0:30
18	Wash 1 18/3 (32°F)	4:00
19	Drain 1	1:00
20	Spin 1	4:00

Cycle 24 Visa Iron		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	3:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 2, 5	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	3:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	110°F Fill to Low Level	5:00
20	Supply 3, 6	0:30
21	Wash 1 18/3 (32°F)	2:00
22	Supply 8	0:30
23	Wash 1 18/3 (32°F)	5:00
24	Drain 1	1:00
25	Spin 2	3:00

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Cycle 25 Visa No Iron		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	3:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 2, 5	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	3:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	110°F Fill to Low Level	5:00
20	Supply 3, 6	0:30
21	Wash 1 18/3 (32°F)	4:00
22	Drain 1	1:00
23	Spin 1	3:00

Cycle 26 Visa Color Iron		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	3:00
3	Drain 1, 4	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 1, 4	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	3:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	110°F Fill to Low Level	5:00
20	Supply 3, 6	0:30
21	Wash 1 18/3 (32°F)	2:00
22	Supply 8	0:30
23	Wash 1 18/3 (32°F)	4:00
24	Drain 1	1:00
25	Spin 2	3:00

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Cycle 27 Visa Color No Iron		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	3:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 1, 4	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	3:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	110°F Fill to Low Level	5:00
20	Supply 3, 6	0:30
21	Wash 1 18/3 (32°F)	4:00
22	Drain 1	1:00
23	Spin 1	3:00

Cycle 28 Shirt Color Starch		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	7:00
4	Drain 1	1:00
5	Hot Fill to Low Level	5:00
6	Supply 1, 4	0:45
7	Wash 1 18/3 (32°F)	5:00
8	Drain 1	1:00
9	Hot Fill to High Level	5:00
10	Wash 1 18/3 (32°F)	3:00
11	Drain 1	1:00
12	Spin 1	1:00
13	Cold Fill to High Level	5:00
14	Supply 3, 6	0:30
15	Supply 5	0:30
16	Wash 1 18/3 (32°F)	4:00
17	Drain 1	1:00
18	Spin 2	3:00

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Cycle 29 Shirt Bleach Starch		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	7:00
4	Drain 1	1:00
5	Hot Fill to Low Level	5:00
6	Supply 2, 5	0:45
7	Wash 1 18/3 (32°F)	7:00
8	Drain 1	1:00
9	Hot Fill to High Level	5:00
10	Wash 1 18/3 (32°F)	3:00
11	Drain 1	1:00
12	Spin 1	1:00
13	Cold Fill to High Level	5:00
14	Supply 3, 6	0:30
15	Supply 2, 8	0:30
16	Wash 1 18/3 (32°F)	4:00
17	Drain 1	1:00
18	Spin 2	3:00

Cycle 30 Shirt Color No Bleach		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	7:00
4	Drain 1	1:00
5	Hot Fill to Low Level	5:00
6	Supply 1, 4	0:45
7	Wash 1 18/3 (32°F)	5:00
8	Drain 1	1:00
9	Hot Fill to High Level	5:00
10	Wash 1 18/3 (32°F)	3:00
11	Drain 1	1:00
12	Spin 1	1:00
13	Cold Fill to High Level	5:00
14	Supply 3, 6	0:30
15	Supply 4	0:30
16	Wash 1 18/3 (32°F)	4:00
17	Drain 1	1:00
18	Spin 2	3:00

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Cycle 31 Shirt Delicate		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Wash 2 3/27 (32°F)	2:00
3	Drain 1	1:00
4	Warm Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 2 3/27 (32°F)	5:00
7	Drain 1	1:00
8	Warm Fill to High Level	5:00
9	Wash 2 3/27 (32°F)	2:00
10	Drain 1	1:00
11	Warm Fill to High Level	5:00
12	Wash 2 3/27 (32°F)	2:00
13	Drain 1	1:00
14	Cold Fill to High Level	5:00
15	Supply 3, 6, 7	0:30
16	Supply 4	0:30
17	Wash 2 3/27 (32°F)	3:00
18	Drain 1	1:00
19	Spin 2	1:30

Cycle 32 Starch Extract		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Supply 2, 8	0:30
3	Wash 1 18/3 (32°F)	7:00
4	Drain 1	1:00
5	Spin 2	3:00

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Cycle 33 Uniforms Bleach		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	3:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 2, 5	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	3:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	110°F Fill to Low Level	5:00
20	Supply 3, 6, 7	0:30
21	Wash 1 18/3 (32°F)	4:00
22	Drain 1	1:00
23	Spin 1	3:00

Cycle 34 Uniforms No Bleach		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 4	0:45
3	Wash 1 18/3 (32°F)	6:00
4	Drain 1	1:00
5	110°F Fill to Low Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Spin 1	1:00
9	110°F Fill to Low Level	5:00
10	Supply 3, 6, 7	0:30
11	Wash 1 18/3 (32°F)	4:00
12	Drain 1	1:00
13	Spin 1	3:00

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Cycle 35 Rags Heavy Soil		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 2, 5	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	2:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to Low Level	5:00
17	Supply 3, 6	0:30
18	Wash 1 18/3 (32°F)	4:00
19	Drain 1	1:00
20	Spin 4	6:00

Cycle 36 Mops in Bags		
Step	**Description**	**Min:sec**
1	110°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 4	0:45
6	Wash 1 18/3 (32°F)	7:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 2, 5	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	2:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to Low Level	5:00
17	Supply 3, 6	0:30
18	Wash 1 18/3 (32°F)	4:00
19	Drain 1	1:00
20	Spin 4	4:00

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Cycle 37 Rewash/Reclaim		
Step	**Description**	**Min:sec**
1	130°F Fill to High Level	5:00
2	Wash 1 18/3 (32°F)	2:00
3	Drain 1	1:00
4	Hot Fill to Low Level	5:00
5	Supply 1, 2, 4, 5	0:45
6	Wash 1 18/3 (32°F)	4:00
7	Drain 1	1:00
8	Hot Fill to Low Level	5:00
9	Supply 1, 2, 4, 5	0:45
10	Wash 1 18/3 (32°F)	7:00
11	Drain 1	1:00
12	Hot Fill to High Level	5:00
13	Wash 1 18/3 (32°F)	4:00
14	Drain 1	1:00
15	Spin 1	1:00
16	110°F Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	110°F Fill to High Level	5:00
20	Supply 3, 6	0:30
21	Wash 1 18/3 (32°F)	4:00
22	Supply 3, 6	0:30
23	Wash 1 18/3 (32°F)	4:00
24	Drain 1	1:00
25	Spin 4	4:00

Cycle 38 Supply Setup		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Supply 1	2:00
3	Supply 2	2:00
4	Supply 3	2:00
5	Supply 4	2:00
6	Supply 5	2:00
7	Drain 1	1:00
8	Warm Fill to Low Level	5:00
9	Supply 6	2:00
10	Supply 7	2:00
11	Supply 8	2:00
12	Supply 9	2:00
13	Wash 1 18/3 (32°F)	0:30
14	Drain 1	1:00

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Cycle 39 Test Program		
Step	**Description**	**Min:sec**
1	Cold Fill to High Level	0:30
2	Drain 1	0:10
3	Hot Fill to Low Level	5:00
4	Auxiliary Fill to Med Level	5:00
5	Heat (150°F)	1h00
6	Cold Fill to High Level	5:00
7	Supply 1	0:30
8	Supply 2	0:30
9	Supply 3	0:30
10	Supply 4	0:30
11	Supply 5	0:30
12	Drain 1	1:00
13	Warm Fill to Low Level	0:30
14	Supply 6	0:30
15	Supply 7	0:30
16	Supply 8	0:30
17	Supply 9	0:30
18	Wash 2 3/27 (32°F)	0:30
19	Wash 3, no agitation (32°F)	0:30
20	Wash 4 10/3 (32°F)	0:30
21	Wash 1, no reverse (32°F)	0:30
22	Drain 1	1:00
23	Auxiliary 1	0:05
24	Auxiliary 2	0:05
25	Auxiliary 3	0:05
26	150°F Fill to High Level	5:00
27	Cold Fill to Overflow	5:00
28	Soak (150°F)	2h00
29	Drain 1	1:00
30	Spin 1	2:00
31	Spin 2	2:00
32	Spin 3	2:00
33	Spin 4	2:00
34	Auxiliary 3	0:15
35	Cold Fill to Med Level	5:00

Cycle 39 Test Program		
Step	**Description**	**Min:sec**
36	Wash 1 18/3 (32°F)	0:15
37	Drain 1	1:00

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Cycle 40 Energy Hot		
Step	**Description**	**Min:sec**
1	Hot Fill to Low Level	5:00
2	Supply 1, 2	0:15
3	Wash 1 18/3 (32°F)	4:00
4	Drain 1	1:00
5	Cold Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Cold Fill to High Level	5:00
9	Supply 3	0:15
10	Wash 1 18/3 (32°F)	2:00
11	Spin 4	3:00

Cycle 41 Energy Warm		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Supply 1, 2	0:15
3	Wash 1 18/3 (32°F)	4:00
4	Drain 1	1:00
5	Cold Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Cold Fill to High Level	5:00
9	Supply 3	0:15
10	Wash 1 18/3 (32°F)	2:00
11	Spin 4	3:00

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Cycle 42 Energy Cold		
Step	**Description**	**Min:sec**
1	Cold Fill to Low Level	5:00
2	Supply 1, 2	0:15
3	Wash 1 18/3 (32°F)	4:00
4	Drain 1	1:00
5	Cold Fill to High Level	5:00
6	Wash 1 18/3 (32°F)	2:00
7	Drain 1	1:00
8	Cold Fill to High Level	5:00
9	Supply 3	0:15
10	Wash 1 18/3 (32°F)	2:00
11	Spin 4	3:00

Cycle 50 Normal 95°C		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Supply 1, 4	0:30
3	Heat (104°F)	1h00
4	Wash 1 18/3 (32°F)	2:00
5	Drain 1	1:00
6	Hot Fill to Low Level	5:00
7	Supply 1, 2, 4, 5	0:30
8	Heat (203°F)	1h00
9	Wash 1 18/3 (32°F)	6:00
10	Cold Fill to High Level	5:00
11	Wash 1 18/3 (32°F)	2:00
12	Drain 1	1:00
13	Cold Fill to High Level	5:00
14	Wash 1 18/3 (32°F)	2:00
15	Drain 1	1:00
16	Cold Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	Cold Fill to High Level	5:00
20	Wash 1 18/3 (32°F)	2:00
21	Drain 1	1:00
22	Spin 1	1:00
23	Cold Fill to High Level	5:00
24	Supply 3, 6, 7	0:30
25	Wash 1 18/3 (32°F)	3:00
26	Drain 1	1:00
27	Spin 4	5:00

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Cycle 51 Normal 60°C		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Supply 1, 4	0:30
3	Heat (104°F)	1h00
4	Wash 1 18/3 (32°F)	2:00
5	Drain 1	1:00
6	Hot Fill to Low Level	5:00
7	Supply 1, 2, 4, 5	0:30
8	Heat (140°F)	1h00
9	Wash 1 18/3 (32°F)	6:00
10	Cold Fill to High Level	5:00
11	Wash 1 18/3 (32°F)	2:00
12	Drain 1	1:00
13	Cold Fill to High Level	5:00
14	Wash 1 18/3 (32°F)	2:00
15	Drain 1	1:00
16	Cold Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	Cold Fill to High Level	5:00
20	Wash 1 18/3 (32°F)	2:00
21	Drain 1	1:00
22	Spin 1	1:00
23	Cold Fill to High Level	5:00
24	Supply 3, 6, 7	0:30
25	Wash 1 18/3 (32°F)	3:00
26	Drain 1	1:00
27	Spin 4	5:00

Cycle 52 Normal 40°C		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Supply 1, 4	0:30
3	Heat (104°F)	1h00
4	Wash 1 18/3 (32°F)	2:00
5	Drain 1	1:00
6	Hot Fill to Low Level	5:00
7	Supply 1, 2, 4, 5	0:30
8	Heat (104°F)	1h00
9	Wash 1 18/3 (32°F)	6:00
10	Cold Fill to High Level	5:00
11	Wash 1 18/3 (32°F)	2:00
12	Drain 1	1:00
13	Cold Fill to High Level	5:00
14	Wash 1 18/3 (32°F)	2:00
15	Drain 1	1:00
16	Cold Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	Cold Fill to High Level	5:00
20	Wash 1 18/3 (32°F)	2:00
21	Drain 1	1:00
22	Spin 1	1:00
23	Cold Fill to High Level	5:00
24	Supply 3, 6, 7	0:30
25	Wash 1 18/3 (32°F)	3:00
26	Drain 1	1:00
27	Spin 4	5:00

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Cycle 53 Gentle Cold		
Step	**Description**	**Min:sec**
1	Cold Fill to High Level	5:00
2	Supply 1, 4	0:30
3	Wash 2 3/27 (32°F)	2:00
4	Drain 1	1:00
5	Cold Fill to High Level	5:00
6	Wash 2 3/27 (32°F)	2:00
7	Drain 1	1:00
8	Spin 1	1:00
9	Cold Fill to High Level	0:30
10	Supply 3, 6, 7	0:30
11	Wash 2 3/27 (32°F)	3:00
12	Drain 1	1:00
13	Spin 1	2:00

Cycle 54 Perm Press 95°C		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Supply 1, 4	0:30
3	Heat (104°F)	1h00
4	Wash 1 18/3 (32°F)	2:00
5	Drain 1	1:00
6	Hot Fill to Low Level	5:00
7	Supply 1, 2, 4, 5	0:30
8	Heat (203°F)	1h00
9	Wash 1 18/3 (32°F)	6:00
10	Cold Fill to High Level	5:00
11	Wash 1 18/3 (32°F)	2:00
12	Drain 1	1:00
13	Cold Fill to High Level	5:00
14	Wash 1 18/3 (32°F)	2:00
15	Drain 1	1:00
16	Cold Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	Cold Fill to High Level	5:00
20	Wash 1 18/3 (32°F)	2:00
21	Drain 1	1:00
22	Spin 1	1:00
23	Cold Fill to High Level	5:00
24	Supply 3, 6, 7	0:30
25	Wash 1 18/3 (32°F)	3:00
26	Drain 1	1:00
27	Spin 1	3:00

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Cycle 55 Perm Press 60°C		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Supply 1, 4	0:30
3	Heat (104°F)	1h00
4	Wash 1 18/3 (32°F)	2:00
5	Drain 1	1:00
6	Hot Fill to Low Level	5:00
7	Supply 1, 2, 4, 5	0:30
8	Heat (140°F)	1h00
9	Wash 1 18/3 (32°F)	6:00
10	Cold Fill to High Level	5:00
11	Wash 1 18/3 (32°F)	2:00
12	Drain 1	1:00
13	Cold Fill to High Level	5:00
14	Wash 1 18/3 (32°F)	2:00
15	Drain 1	1:00
16	Cold Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	Cold Fill to High Level	5:00
20	Wash 1 18/3 (32°F)	2:00
21	Drain 1	1:00
22	Spin 1	1:00
23	Cold Fill to High Level	5:00
24	Supply 3, 6, 7	0:30
25	Wash 1 18/3 (32°F)	3:00
26	Drain 1	1:00
27	Spin 1	3:00

Cycle 56 Perm Press 40°C		
Step	**Description**	**Min:sec**
1	Warm Fill to Low Level	5:00
2	Supply 1, 4	0:30
3	Heat (104°F)	1h00
4	Wash 1 18/3 (32°F)	2:00
5	Drain 1	1:00
6	Hot Fill to Low Level	5:00
7	Supply 1, 2, 4, 5	0:30
8	Heat (140°F)	1h00
9	Wash 1 18/3 (32°F)	6:00
10	Cold Fill to High Level	5:00
11	Wash 1 18/3 (32°F)	2:00
12	Drain 1	1:00
13	Cold Fill to High Level	5:00
14	Wash 1 18/3 (32°F)	2:00
15	Drain 1	1:00
16	Cold Fill to High Level	5:00
17	Wash 1 18/3 (32°F)	2:00
18	Drain 1	1:00
19	Cold Fill to High Level	5:00
20	Wash 1 18/3 (32°F)	2:00
21	Drain 1	1:00
22	Spin 1	1:00
23	Cold Fill to High Level	5:00
24	Supply 3, 6, 7	0:30
25	Wash 1 18/3 (32°F)	3:00
26	Drain 1	1:00
27	Spin 1	3:00

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Cycle 57 Gentle 30°C		
Step	**Description**	**Min:sec**
1	Cold Fill to High Level	5:00
2	Supply 1, 4	0:30
3	Wash 2 3/27 (32°F)	2:00
4	Drain 1	1:00
5	Cold Fill to High Level	5:00
6	Supply 1, 2, 4, 5	0:30
7	Heat (86°F)	1h00
8	Wash 2 3/27 (32°F)	3:00
9	Drain 1	1:00
10	Cold Fill to High Level	5:00
11	Wash 2 3/27 (32°F)	2:00
12	Drain 1	1:00
13	Spin 1	1:00
14	Drain 1	1:00
15	Cold Fill to High Level	5:00
16	Supply 3, 6, 7	0:30
17	Wash 2 3/27 (32°F)	3:00
18	Drain 1	1:00
19	Spin 1	2:00

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